

6-1-1996

BS News

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Recommended Citation

(1996) "BS News," *Building Services News*: Vol. 35: Iss. 6, Article 1.

doi:10.21427/D7R11R

Available at: <https://arrow.tudublin.ie/bsn/vol35/iss6/1>

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BSNews

JUNE 1996

IRISH BUILDING SERVICES NEWS

Tallaght Hospital – Bitter Pill to Swallow?

With another two firms heavily involved in the Tallaght Hospital project going into liquidation as we go to press, there are rumblings of disquiet within the industry as to the benefits the scheme has actually brought to the construction industry at large and, more precisely, to the building services sector.

Yet again suppliers are left carrying the can for business

failures which, on the face of it at least, are difficult to fathom. The latest companies to go into liquidation are long-established, reputable concerns with hitherto unblemished reputations.

The full facts have yet to emerge but these latest closures appear to follow a pattern which some industry observers predicted were inevitable a number of years ago. The tender prices at which various contracts were awarded on the Tallaght Hospital project caused many a raised eyebrow with contractors and suppliers alike privately voicing their concerns. For obvious reasons few, if any, were prepared to go public on the issue at the time. Now, however, their worst fears are being realised.

The entire construction industry — including building services — should have reaped significant benefits from the Tallaght Hospital project. Unfortunately, that appears not to have happened. Who's to blame at this stage is immaterial. Far better that the

Merriot & BSNews Go Karting!



Forget the golf ... 19 teams representing consultants and contractors are now enjoying the spills and thrills of go-karting in the Merriott/BSNews league. Someone should really have a word with Frank Donohoe though ... trying to pass this Ford Escort off as a kart fooled no one! (see page 7).

York refrigeration



Finbar Keenaghan has been appointed Technical Sales Engineer at York ACR. His brief takes in the 32 counties of Ireland and he will have total responsibility for all matters relating to refrigeration. Finbar's qualifications are refrigeration-based with City & Guilds and Refrigeration Trade Exams under his belt. His practical experience spans 13 years working specifically in refrigeration, nine of them spent abroad in Sweden and the UK.

situation be honestly appraised and for all concerned to acknowledge that the price-led mentality which now dominates the industry simply does not work.

The Tallaght Hospital project may indeed be a bittersweet pill for many to swallow but, now that the medicine has been dished out, let's at least gain some benefit from it. On this, and any other project (be it big or small) quality and value-for-money, plus a reasonable profit margin for the product supplier/services provider, *must* be the baseline in determining tender prices.

Buckley & Downie Move

Buckley & Downie, consulting engineers, have moved to new premises. They are now located at Carraig Court, George's Avenue, Blackrock, Co Dublin. Telephone and fax numbers remain the same.

Tel: 01 - 288 4938;
Fax: 01 - 288 6966.

Golden Congratulations VMRA!

Golden Jubilees are something to be proud of in any context but to survive and prosper for 50 years in the commercial world — and building services in particular — is undeniably a remarkable achievement. BSNews joins with the entire industry in congratulating VMRA on this landmark occasion and in wishing all concerned continued growth and prosperity over the next 50 years. Pictured right in the company of founding members are today's principals. They are (from left):— Tony Conlon, John Purcell, Brendan Sheehan, Brian Reilly, Sean Mulcahy and Stephen McLaughlin. See also page 22.





A-Fitting Partnership



Hevac Limited

Industrial, Commercial & Domestic Heating
70/72 Lower Dorset Street, Dublin 1.
Tel: 8301211, Fax: 8301990

Building Services News*

ISSN 0791-0878

Published by:
Pressline Ltd,
Carraig Court,
George's Avenue,
Blackrock, Co Dublin.
Tel: 01-288 5001/2/3
Fax: 01-2886966

Editor: Pat Lehane
Advertisement Manager: Joe Warren
Telephone Sales: Ita Moore
Administration: Edel Burke
Origination and Design:
Pressline Ltd. Tel: 01 - 288 5001
Subscription: One Year — £27
Printed by: Kilkenny People.

© All editorial contents and all
advertisements prepared by the publishers,
Pressline Ltd.

* Incorporating Irish Heating & Ventilating
News.

Readership Data

Irish Building Services News (formerly Irish
H&V News) is Ireland's only Building Services
magazine providing coverage of heating,
ventilating, air conditioning, refrigeration,
sanitaryware, plumbing, maintenance and
environmental industries. It is the only
publication catering exclusively for these
industries and its circulation includes
members of the following:-
Chartered Institution of Building Services
Engineers (CIBSE);
Mechanical Engineering & Building
Services Contractors'
Association (MEBSA); The Association of
Consulting Engineers of Ireland (ACEI); The
Mechanical Engineering Contractors'
Association;
The Institute of Domestic Heating Engineers
(IDHE);
The Registered Heating Contractors
Association; The Maintenance, Energy &
Environmental Technology Association
(MEETA) which incorporates energy
managers and maintenance managers;
The Energy Conservation & District Heating
Association; The Institute of Plumbing;
The Irish Home Builders Association (IHBA);
Builders Merchants/Trade Supply Outlets.

In addition, Irish Building Services News
circulates to independent building services
contractors and key executives in industry.
Government, Semi-State and local authority
bodies. Essentially, our circulation is virtually
saturation coverage of all those with an
interest and/or involvement in the industry.

Published by ARROW@TU Dublin, 1996

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Teddy Bourke, overall winner of the Potterton Myson annual golf outing at Mount Juliet, being congratulated by Sean Hanratty

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PLAN EXPO '96

Combined exhibition/conference format to take in IDHE, CIBSE and The Irish Property and Facilities Managers events

TRADE NEWS

Bigger Phex Returns to Dublin and Belfast

After last year's initial success, the Phex domestic plumbing and heating exhibition will return to Dublin and Belfast during September. The format will remain the same as the proven successful series of exhibitions organised by B & M Publications in the UK and Ireland over the past few years.

A broad cross-section of exhibitors means visitors will be able to view the latest offerings in the boilers, controls, fires, pipes and fittings, radiators, sanitary ware, showers and tools. Phex is supported by the majority of leading manufacturers in the industry and their distributors, both in NI and the Republic.

With time at a premium during the working week, the local nature of the shows and the convenient opening times provide the busy installer with the maximum opportunity to visit the exhibition without disrupting work schedules. In addition, the organisers are providing free refreshments for all visitors and a chance to win prizes at the roulette table.

After the successful shows last year the venue has been changed to absorb the growing demand. To be held in September this year, the Phex Ireland roadshow will visit The Burlington Hotel on Monday and Tuesday, 23/24 September. On Monday the show will open from 6.00pm to 9.30pm and on Tuesday it will open between 11.00am and 3.30pm.

The show will then move to The Kings Hall Conference Centre in Belfast for Wednesday and Thursday, 25/26 September. The Belfast show will open between 6.00pm and 9.30pm on Wednesday and from 11.00am to 3.30pm on Thursday. Both exhibitions will provide not only the opportunity for visitors to discuss business, but also to enjoy themselves at the popular roulette evening which proved a great success last year.

For information and tickets contact the Phex Hotline on Tel: 0044 181 680 4200

Ashworth Frazer Extended Opening

Ashworth Frazer Ltd – one of the recognised market leaders in underground piping supplies to the water, sewerage and gas industries – is fast becoming just as well known in the fire sprinkler and mechanical services market as a “one-stop” shop for all above-ground pipe and fittings requirements.

Currently carrying extensive stocks at its new custom-built tube warehouse in Tallaght, the company is confident it can supply all of its customers' needs – from stock or sourced and brought in – on a short lead time.

In order to maintain and improve still further customer service, Ashworth Frazer's counter is now open from 8.30am to 5.15pm daily, Monday to Friday, manned by the experienced David Byrne. David says: “There are very few piping problems that cannot be solved at the sales counter given the vast stock of pipe, fittings and valves we carry”.

Ashworth Frazer prides itself on



David Byrne, Sales Counter, Ashworth Frazer, attending to a customer.

a speedy and efficient turnaround service at the counter. To minimise delays even further, customers are also encouraged to phone or fax their requirements well in advance. All such orders are prioritised and are packed and ready for collection on the customer's arrival.

Looking to the future, plans are in hand to extend the sales counter area and to further improve customer facilities by providing complimentary tea or coffee and daily newspapers. As a thank you to its many sales counter customers, Ashworth Frazer will also be offering promotional draws and free gifts on a weekly and monthly basis. Details of these will be announced shortly.

Contact: David Byrne, Ashworth Frazer sales counter. Tel: 01 - 452 7522.

Potterton Myson at Mount Juliet

The Potterton Myson annual golf outing was held on 28 May last at Mount Juliet. Weather on the day was excellent and was complemented by the perfect condition of the course. Archery and clay pigeon shooting was also on offer.

Seventy two guests participated in the golf with a total of 83 attending for the dinner later. Overall winner on the day was Teddy Bourke. Ray McSweeney was runner-up

with Ray Colgan in third place. Other prizewinners were:—
Class 1 — Winner: John Lyons, Irish International Trading; Runner-up: Dermot Fennelly, M&D Fennelly Ltd;
Class 2 — Winner: Brendan Pluck, Paramount Heating Services; Runner-up: Jerry Maher, Dublin Providers;
Class 3 — Winner: Billy Brannigan, Heatequip Ltd; Runner-up: Kieran Smith, Abbey Heating Ltd.
Visitors — Winner: Paul Feney; Runner-up: Eamon Mellott.
Front Nine — Tom Redmond;
Back Nine — Tony Kenna.



Left: Brian Redmond, Armitage Shanks with Mick Daly, Heatwise; Brendan Boucher, H&V Sales; and Richard Louth, Potterton Myson.

Right: Group pictured prior to the archery and clay pigeon shooting competition.



TRADE NEWS

BTU at Old Conna

Overall Winner – Des Prendergast, 40pts;

Class 1 – Winner: John Lavelle, 35pts;

Runner-up: John Lawlor, 33pts;

3rd: Sean Smith, 32pts;

Class 2 – Winner: Vincent Broderick, 39pts;

Runner-up: Tony O'Leary, 36pts;

3rd: Shay Kearney, 34pts;

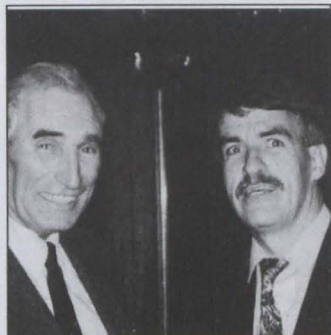
Class 3 – Winner: Bob Daly, 37pts;

Runner-up: Tom Harrinton, 33pts;

3rd: Brian Kearney, 29pts;

Back Nine – Winner: Ray Byrne, 18pts;

Runner-up: Michael Kennedy, 17pts;



BTU at Old Conna sponsored by GT Phelan – Gerry Phelan with Sean Smith, who got 3rd prize, Class 1.

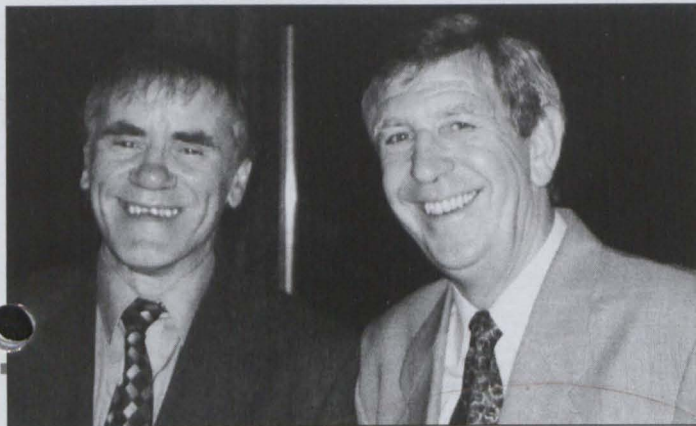
Front Nine – Winner: Jim Nolan, 18pts;

Runner-up: Dave Harris, 17pts;

Visitors – Winner: Martin McSkerry, 35pts;

Runner-up: Des Binley, 34pts.

Captain's Prize – Friday, 26 July 1996, Newlands Golf Club. Time Sheet: Captain Gerry Baker.



BTU at Old Conna sponsored by GT Phelan – Tony O'Leary, 2nd Class 2, with BTU Captain Gerry Baker.



BTU at Old Conna sponsored by GT Phelan – BTU Captain Gerry Baker with Class 1 winner John Lavelle and Gerry Phelan.

Reznor's Flexibility Solves Unusual Heating Problem

How do you come up with an economic and effective solution to heating a building the size of a small factory that is only in use one day a week? Add to this the fact that the building in question has been designed to provide a lofty and spiritual environment with no allowance made for heat retention and the enormity of the task becomes apparent.

The building in question is of course a church. Churches pose a particular problem in that they usually contain large areas of single-glazed, stained-glass; roofing without insulation; and draughts galore!

Such was the problem encountered by VMRA in relation to the catholic church in Dundrum. On examining the various options available, the decision was made to install a Reznor indirect-fired, warm air, induction system.

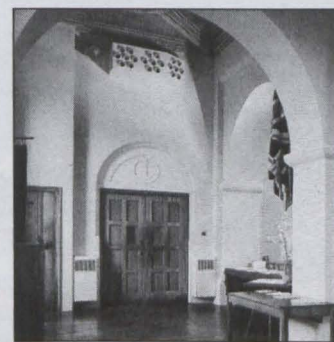
Reznor units as supplied by Euro Gas have a proven track record in church applications. They are provided with an integral exhaust fan and automatic spark ignition while

the wide range of models and optional equipment allows for a high degree of customisation.

Of particular note is the extremely low noise levels generated by the equipment and air distribution system. The heaters are equipped with single or belt-driver inlet centrifugal blowers with forward-curved blades.

Additionally, and to ensure extra-quiet operation, the bearings – which are the sealed-for-life type – are mounted in resilient rubber housings.

Contact: Pat Curran/Des Prendergast, Euro Gas.
Tel: 01 - 286 8244.



Typical application for which a Reznor indirect-fired, warm air, induction system is the perfect cost-effective heating solution

WANTED

Technical Sales Engineer

Standard Control Systems has a vacancy for a Technical Sales Engineer with Building Services Mechanical/Electrical experience.

Knowledge of HVAC controls, process controls and/or building management systems desirable.

Apply in strictest confidence to:-

Sales Manager,
Standard Control Systems,
Main Street, Leixlip,
Co Kildare.

TRADE NEWS

Wilo Cleanson Sludge Removal Module

Wilo Engineering Ltd has made available an innovative means of removing sludge and floating particles from central heating, secondary hot water and air conditioning systems. Called Cleanson, it is a self-contained system consisting of:

- A separator: a non-moving part made of 316L stainless steel, including a particle separation cylinder, the sides of which are equipped to create a magnetic field and a collection chamber;
- A hydraulic and electromechanical system: this includes a specific pump for each model, a motorised automatic globe drain valve, a leak detector

and an equalisation valve;

- A control panel which provides complete automation and protection.

The unit is pre-wired, painted and ready to install.

The Cleanson is based on the latest technology using innovative design. It uses only natural physical processes with no addition of chemicals. This patented process uses a combination of the following physical separation and air removal techniques – centrifuging + magnetophoresis + the vortex effect.

Magnetophoresis allows the separation and flocculation of the

iron oxides contained in the water. Water from the system entering the module is accelerated by the pump and driven into the separator through the tangential inlet.

Continuous pressure from the pump and the accelerator cone causes the water to swirl at high speed. This creates a powerful centrifugal effect which, together with multi-polar magnetic field, forces particles suspended in the water to the bottom of the separation cylinder where they are sucked into the collection chamber. The vortex effect reverses the direction of the movement of the swirl, forcing the water back up the centre of the separator and back into the system.

A continuous process automatically removes air at the separator outlet. Iron oxides are converted into magnetite or black sludge and evacuated through the motorised valve. The process is completely automated and can be monitored from the control box.

Operating limits: Volume for closed systems – 10 to 900m³;

Max service pressure – 10 bar;

Max temperature – 100°C;

Nominal bore of system – 40 to 600mm.

Principal advantages are:-

Optimum efficiency of up to

98% ... all particles down to 40 microns are extracted;

System water is kept clean without adding chemicals;

Sludge discharge is non-polluting and environmentally harmless;

Better control of energy consumption ... clean pipework systems, obstructed pipework and local overheating are eliminated;

Separator is made of 316L stainless steel, especially recommended for drinking water and secondary hot water systems;

Air removed automatically and continuously;

Removable separator complies with French standards (DTU No. 60-1);

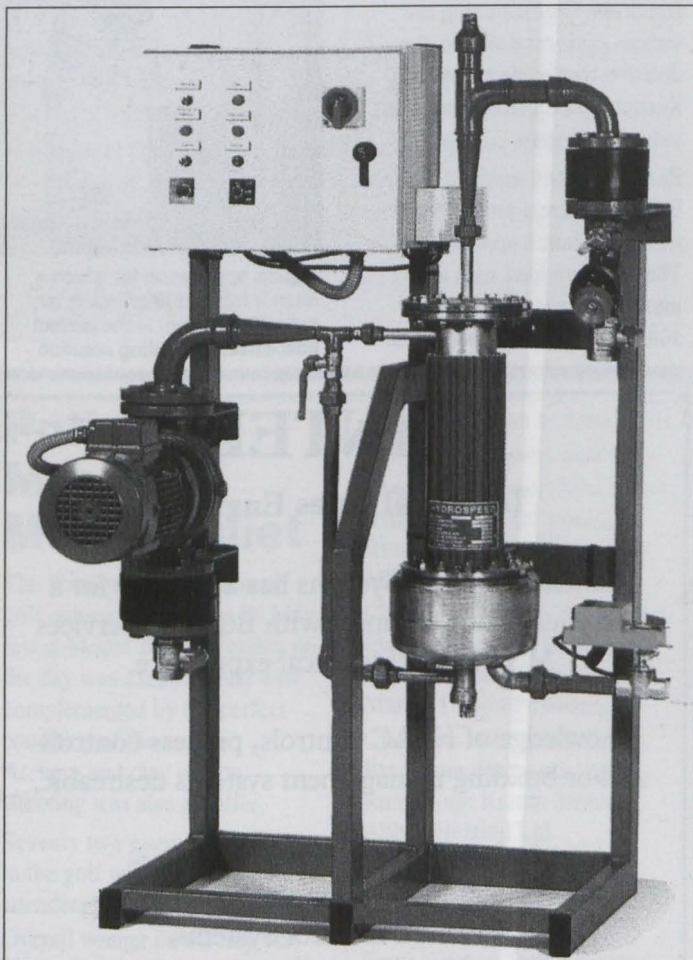
Fully automated system can be monitored at all times.

Applications include protection of pipework systems used for central heating; air conditioning; and fountains.

On special request: Suspended solids separations for drinking water tanks and sanitary hot water tanks.

Cleanson is especially recommended for large buildings, service sector facilities, fountains, and industrial facilities.

Contact: Tony Cusack, Wilo Engineering. Tel: 061 - 410963.

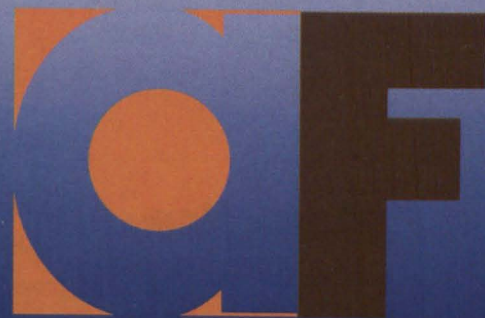


Cleanson sludge removal module for heating and air conditioning systems from Wilo

Advances in RO Treated Water

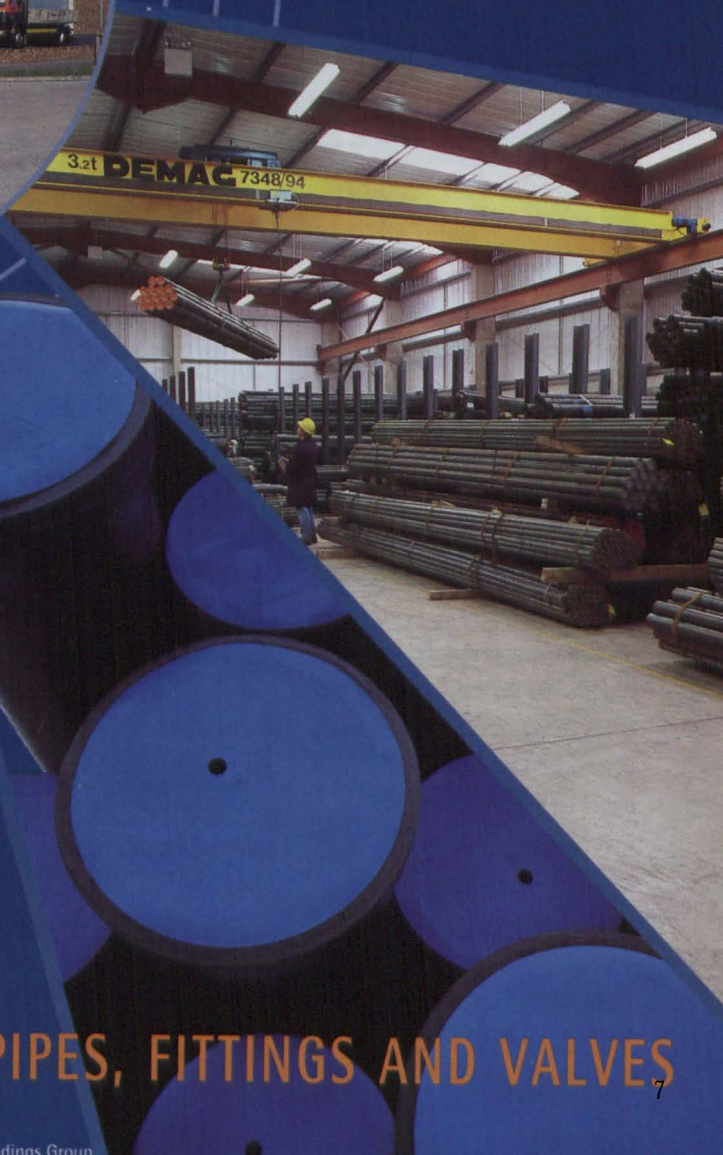
JS Industrial Services has recently introduced an advanced version of the JS PureFlo™ reverse osmosis water treatment plant. The new system is a sealed one and has been developed to prevent impurities entering the water after treatment.

It supplies treated water at mains pressure for applications such as cold water humidifiers and other applications. Cost savings in the region of up to £1,000 are claimed because the system also eliminates the need for low pressure storage tanks. Ultra violet sterilisation is also an integral feature of the new system.



Ashworth Frazer

Ashworth Frazer Ltd.
Hibernian Industrial Estate
Greenhills Road
Tallaght
Dublin 24
Tel: 01 4527522
Fax: 01 4514621



THE NUMBER ONE CHOICE FOR PIPES, FITTINGS AND VALVES

Published by ARROW@TU Dublin, 1996

TRADE NEWS

Portable Non-Contact Thermometers from Manotherm

The Minolta/Land Cyclops Mini Laser and Mini View are two new portable infrared thermometers from Land Infrared providing fast, accurate, non-contact temperature measurement within the range - 50 to 500°C.

Mini Laser is a simple-to-use

by 1.4° and 2° graticules, and display of temperature, is provided in the viewfinder.

Both thermometers have a speed of response of 0.8s and can be used in manual, monitor (continuous) or peak mode. They provide low-drift temperature measurement, accurate to $\pm 1\%$ of reading, with a repeatability of $\pm 1^\circ\text{C}$.

A single AA alkaline battery provides approximately 18 hours in continuous operation, with up to six hours continuous use with the laser operating. An automatic



Minolta/Land Cyclops Mini Laser and Mini View from Manotherm.

“aim and shoot” thermometer with a built-in laser targeting system which projects a red laser light which both pinpoints and defines the measurement spot.

All the user has to do is press the measure button and the laser illuminates the target object being measured. The temperature is indicated on the external LCD panel on the rear of the instrument.

Mini View uses a fixed-focus, single-lens-reflex, optical system for sighting and temperature measurement. A simultaneous

“power save” feature is also incorporated.

As well as providing an alternative to temperature probes (ideal when contamination of the product must be avoided) Mini Laser and Mini View provide a low-cost means of measuring temperatures for plant maintenance and process monitoring purposes.

Details from Manotherm Ltd, The Control Centre, 4 Walkinstown Road, Dublin 12.

Tel: 01 - 452 2355;

Fax: 01 - 451 6919.

McQuay First Off The Grid

At the heart of the new Easdale air handling unit offered by AAF-McQuay International is an innovative frame which has hi-tech composite material as used in the Formula One racing cars driven by Hill and Schuemaker. This may at first appear to be a lavish expense for an air handling unit but, this product has been specifically designed to provide the greatest level of quality and reliability.

The shell of this modar-composite unit will not corrode. It is lighter and stronger than steel but offers the same benefits of welded steel without the risk of corrosion. It has better fire-resisting characteristics than aluminium and, above all else, it is an insulator, so it provides energy efficiency.

AAF-McQuay is committed to Total Quality Management and was among the first to achieve BS EN ISO 9000. This is why the air handling manufacturing site in Cramlington where the Easdale is produced is at the forefront of technology in design, and offers the highest quality product.

Contact: Aidan Lynch, Thermo Systems. Tel: 01 - 492 5340.

Roca Heating Products for Arcon

Arcon has been appointed main agent and distributor for the full range of Roca heating products in Ireland. Arcon already supplies Roca's sanitaryware through Elegant John Bathrooms.

The very concept of central heating in Spain has always been directly associated with Roca ... the first Spanish radiator was made by this company. Those cast iron radiators dating from the turn of the century formed the basis for Roca's growth.

Today, although central heating is only one of the company's product lines, Roca's heating division is one of the most important industrial complexes in Europe. Roca not only manufactures appliances capable of generating heat from any energy source, but also offers complete heating systems, including generators for all power ratings, and cast iron, steel and aluminium radiators which give performance and are decorative at the same time.

Roca is known mainly for its

sanitaryware. From the technology developed in cast iron radiators, Roca was able to make use of its experience to produce the first baths and it had the capacity to undertake the manufacture of vitreous china, anticipating at that time the growth in the construction market.

Research, technology and quality have enabled the Sanitaryware Division to remain the leader in the Spanish market for over half a century, placing Roca among the world's top manufacturers.

Roca is continually incorporating new design features and functionality into its traditional products. Included in the portfolio is baths; shower screens; mirrors; taps; and all types of accessories and fittings.

The production of baths is a Roca speciality directly inherited from its first cast-iron factories.

A broad range of cast iron, steel and acrylic baths now meet the various needs of markets all over the world.

Satisfying the new trends, Roca also incorporates Whirlpool systems into its baths.

Contact: Tony Callaghan, Arcon. Tel: 01 - 454 1384.

TRADE NEWS

Merriott/BSNews Karting Grand Prix

Forget the golf ... karting is the new industry game. Consequently, Merriott and BSNews have joined forces to organise the building services karting grand prix. Even before news of the event had been formally announced, we already had too many team entrants. For this inaugural competition there are now a total of 19 teams and the preliminary rounds are already underway.

Teams — Temec; Versatile/Merriott; Mad Mac's (McArdle McSweeney); Arcon; Delap & Waller (two teams); JV Tierney (two teams); FKM; Leo Lynch & Co; Homan O'Brien; Dornan Engineering; TE Lynskey; Varming Mulcahy; T Bourke & Co; Combi Contractors; Combi Consultants; OPW; RN Murphy.

The rules and regulations are as laid down by Kylemore Karting and these are explained to all competitors prior to the practice and race sessions. Each team consists of four drivers who each have four races per night. Points are awarded on the basis of 1st — 10pts; 2nd — 7pts; 3rd — 5pts; and 4th — 3pts. Scoring on the night is on the basis of the combined points total of the best three results. The lowest scorer is discarded.

Each team competes in two heats with the top three teams automatically qualifying for the grand final. The next six teams will also compete with one another on the night of the final to determine who takes fourth place.

All participants will turn out for the final night with the party adjourning to Harry Ramsden's for the presentation of trophies, a meal, drinks and post-competition analysis.

As the heats progress it is obvious that some team entrants have been getting in sneaky practice. It is also apparent that others could well do with it!

So far current leaders are Arcon (after two rounds) with a total of 209 points. Second placed are R N Murphy (Savages!) with 191 points while Delap & Waller have 100 points (after one round). Ron O'Connor — with a time of 22.83 — still holds the fastest lap record.

Contact: Frank Donohoe, Merriott. Tel : 01 - 459 6213.

Lycris Byrne Water Seminar Success

The recent Lycris-Byrne organised water seminar on storage, heating, corrosion and quality was an unqualified success. Fifty delegates participated on the day with all industry sectors — from engineers through to contractors, heat merchants, end-users and Government Department personnel — attending.

There were four presentations on the day — one from Lycris-Byrne on its new lifetime-guaranteed, glass-lined, steel cylinders which were on view for the first time; and one each from Salamander (Engineering), J&E Hall Ireland and Wirsbo, with

Continued overleaf

IBP Conex and Hevac - a Fitting Partnership

The long-standing relationship between Hevac Ltd and Conex Sanbra Ltd, Tipton, West Midlands, UK, goes back many years and fully reflects the premier status that both names enjoy within the marketplace.

Conex Sanbra Ltd — part of the Delta plc Group — along with other IBP group manufacturing activities in Germany, Spain, France, and elsewhere in the UK, make the

LEFT: Conex compression fittings have full accreditation to all relevant regulatory requirements and standards, including IS 238.

IBP Group the foremost manufacturer of fittings for jointing copper tubes in Europe.

Hevac first introduced Triflow solder ring capillary fittings to the Irish market in 1982, the first such fitting suitable for jointing Irish size copper tubes. Since then sales of solder ring capillary fittings account for a significant part of the Irish copper tube fitting market.

Other IBP fittings products include IBP Delcop copper end-feed capillary fittings, IBP Delbraze, and Clyde brazing fittings.

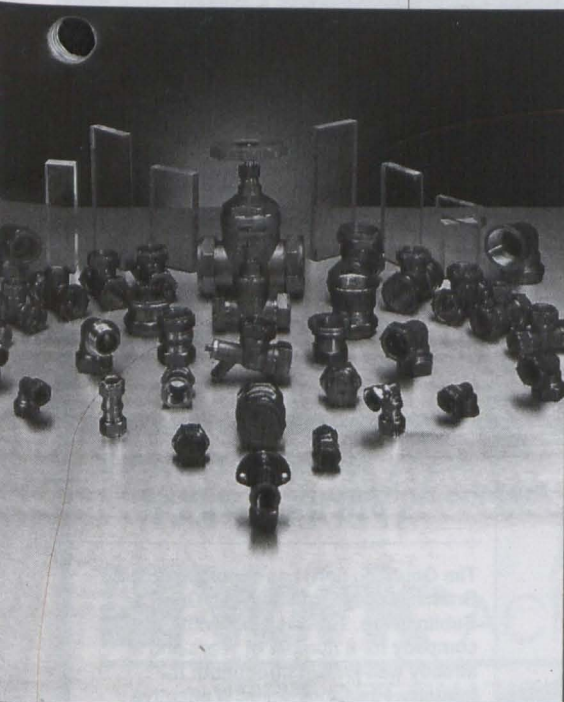
Conex compression fittings have full accreditation to all relevant regulatory requirements and standards, including IS 238.

Triflow capillary fittings are manufactured to similar exacting standards and they have ISO 9000 accreditation from the NSAI since 1987.

Innovation has always been the hallmark of Conex Sanbra Ltd, the Conex Serviceman valve being a typical case in point. Serviceman comprises straight servicing valves and elbows designed to meet the UK Water Byelaw requirements which require the fitting of a service valve as close as is practical to hot water storage cistern, cylinders or tanks and float valves. The swivel connectors within Serviceman are especially suitable as they allow direct connection to float valves or taps. However, they are ideal for use in any terminal installation and are available in sizes 15mm and 22mm Irish copper dimensions.

Extensive stocks of the entire Conex Sanbra range are held at Hevac's premises in Dorset Street, Dublin 1.

Contact: Declan Kissane, Hevac Ltd. Tel: 01 - 830 1211.



TRADE NEWS



comes to Ireland September '96

- Keep up with the latest developments in the domestic heating and plumbing industry.
- See the latest in energy efficiency and design.
- Discuss your needs with the manufacturers and distributors.
- Each visitor will receive a free buffet and drink voucher
- Conveniently located with opening times to suit you - VISIT PHEX.

DUBLIN

The Burlington, Upper Leeson Street.
Monday 23rd September 6 - 9.30 pm
Tuesday 24th September 11 am - 3.30pm

BELFAST

Kings Hall Conference Centre
Wednesday 25th September 6 - 9.30 pm
Thursday 26th September 11 am - 3.30pm

TICKET REQUEST

Please send me tickets for PHEX

Dublin ☐

Belfast ☐

Name

Company

Address

Postcode

Tel

<https://arrow.tudublin.ie/bsn/vol35/iss6/1>
Please return to PHEX tickets, EEC, Hereford House,
Barnes Park, Croydon, Surrey, CR9 4NL, England.

Tel: (0044) 0181 680 4200

Fax: (0044) 0181 681 5049



On the occasion of the Lycris-Byrne seminar in the Engineers Club in Dublin recently Minister for Housing at the Department of the Environment, Liz McManus, TD, took the opportunity to formally present the company with its ISO accreditation. Pictured are (from left) Tracy Jolly, Customer Care with Director Chris Byrne; the Minister; Director Lily Byrne; and George McWilliams, Plant Foreman.

whose cooperation and support the event was organised. The success of any event of this kind is best gauged by the amount of discussion generated during the open forum sessions. On that basis of assessment Lycris-Byrne can feel well pleased with the result. The launch of its glass-lined, steel cylinders generated a great deal of discussion. These

cylinders can be used in any water storage system and are claimed to revolutionise high-pressure systems as water pressure control valves and

vacuum breakers are not required.

Contact: Chris Byrne,
Lycris-Byrne.

Tel 01 - 286 3794.



Chris Byrne with Liz McManus, TD, Minister for Housing at the Department of the Environment



SATCHWELL GRANT APPOINTMENT

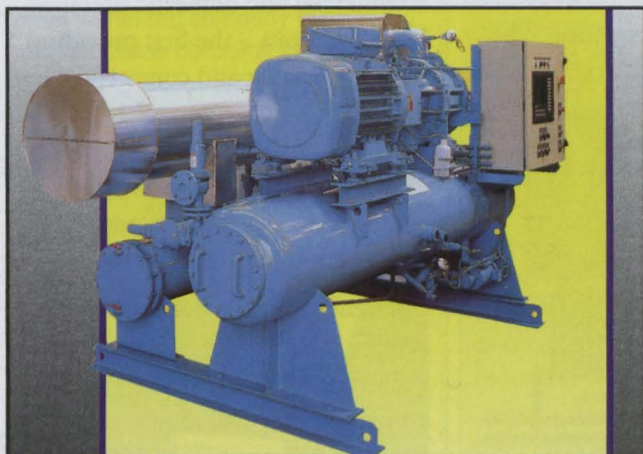
Tim Goulding (left) has been appointed Branch Manager of Satchwell Grant's Dublin office. Tim has been with the company for a number of years and is already well-known throughout the industry. His appointment is effective immediately.



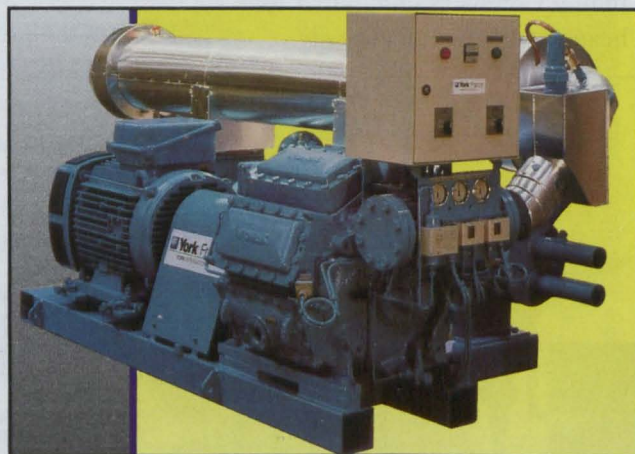
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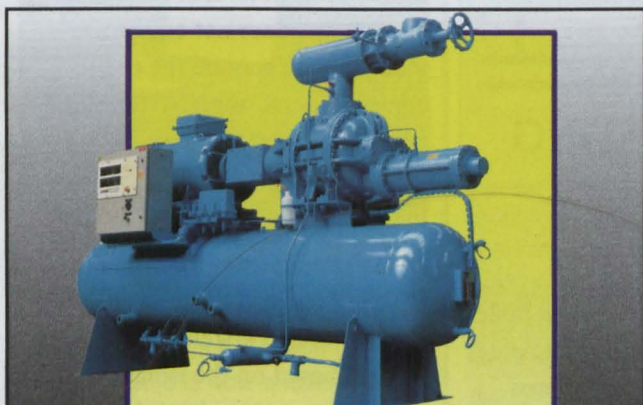
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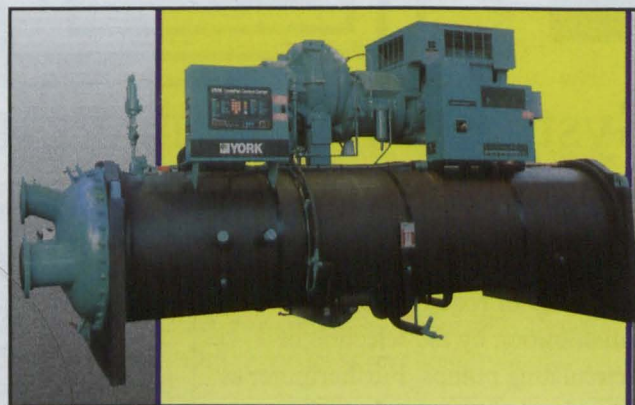
Model 'SC' R22 & R717 DX
130 kW – 1630 kW – water, glycol or brine



Model 'GP' R22 & R717 DX
40 kW – 600 kW. 27 models – water, glycol or brine



Frick Model RWBII Plus
506 – 5635 m³/hr swept volume



Model YNWS centrifugal compressor suitable for R717
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For further information contact:



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**Unit 4, Ballymount Cross Business Park,
Ballymount Cross, Dublin 24.**

Tel: 01 - 456 9424; Fax: 01 - 456 9425

SystemZone ... Getting to the Heart of Heating Control

SystemZone is a smart central heating water distribution system, distributed in Ireland by Coppercraft Ltd. SystemZone is zoning made easy. It is designed to make it easy for installers to deliver high-performance zoned systems without complicated zone valves. By neutralising the flow/return water pressures as they pass through the unit, it eliminates unrequired zone heating while simultaneously

It caters perfectly for expansion and cold feed supply throughout the system. It comes complete with connection points for ancillary safety devices, i.e., safety valves, pressure vessels, etc.

SystemZone – with its unique ability to logically direct the heated water to the designated inlet/outlet ports – makes it easy to install super efficient multi-boiler systems. The

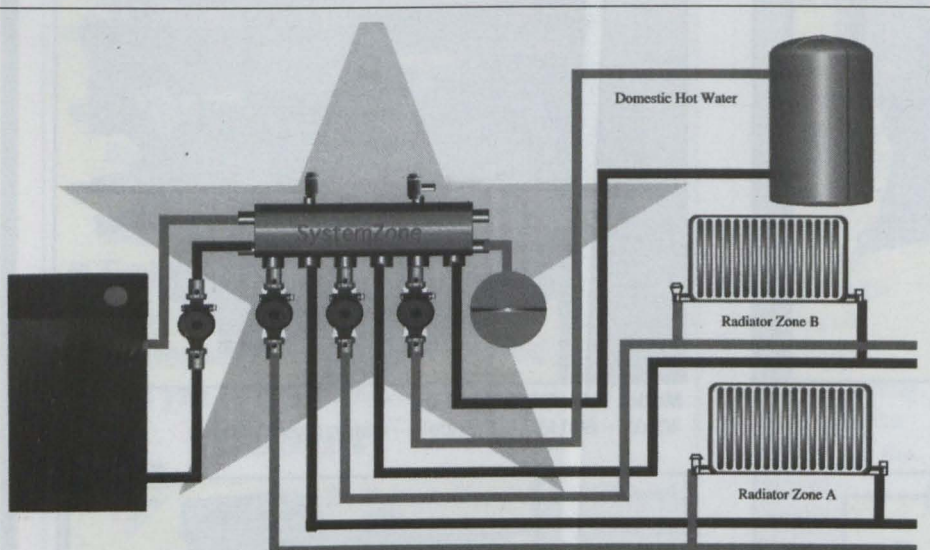
provide for more zone applications. Given this versatility, it is suitable for use in either the domestic or commercial environment. An example of such a situation would be separate “upstairs and downstairs” radiators with independent domestic hot water.

The 4-Zone version would provide for an additional zone which would be ideal where a separate underfloor system is to be installed. All units cater for an auxiliary boiler if so required. SystemZones can be used in tandem to provide unique solutions to complicated heating requirements in combined commercial and domestic premises. With two units – the first providing primary heating and commercial hot water, and a second unit providing for domestic heating and hot water circuits – the SystemZone provides an efficient system and a cost-effective installation.

Conventional zone control systems require complicated pipework with motorised valves, system bypass, etc, which typically will require system draining for component repair or replacement. This, coupled with a more complex level of installation knowledge, does not encourage installers to promote the use of zoned systems. With SystemZone none of these are required with consequent simplification of the installation pipework and electric wiring.

SystemZone can be used on either open or sealed systems. With zone control based on the isolation of circulating pumps, it could not be easier to understand, install or fault-find. As installers know, failed pump replacement is very easy and replacement without system draining is standard.

SystemZone is available from distributors Coppercraft Ltd. Contact: Dave or Terry Madigan. Tel: 01 - 626 5146; Fax: 01 - 626 5813.



SystemZone ... The HEART of HEATING

SystemZone ... the heart of heating. Details from Coppercraft.

catering for required zone distribution by the selection of circulating pumps. Furthermore, as the circulating water from the system pipe work passes through the larger unit area, it slows and SystemZone de-aerates the water.

SystemZone is a neutralising device that is typically located at the core of a heating system. By design it provides all the essential requirements to satisfactorily install a system correctly. It is intrinsically safe being internally unobstructed.

fuel efficiency benefits of dual boiler systems have long been appreciated, but the complications associated with installing these systems tends to promote the use of less efficient single boilers. SystemZone is more than a zone control pipe centre, it can be used to connect two boilers for simultaneous use in an uncomplicated way.

SystemZone is available in a variety of units catering for multiples of up to four independent zones but these units can be inter-connected to

refrigeration

Total Refrigeration Performance – Quality Solutions

Fridge Spares (Wholesale) Ltd has been delivering a combination of quality products and quality service to the refrigeration sector for over 30 years.

Its industry standing, reputation and the extent of its customer base bears testimony to its success in this endeavour, a fact which was further endorsed recently by the awarding of ISO 9002 accreditation.

The fact that the ISO 9002 systems were developed and implemented from within the company (with the aid of outside consultants) was



Derek Byrne, General Manager/Director, Fridge Spares (Wholesale) Ltd with Dermot Byrne, Managing Director

crucial, the result being that this quality culture is now endemic to Fridge Spares.

There are two core aspects to the service provided by Fridge Spares – consultation and advice, and products. The company has always been to the forefront in this respect, guiding contractors in devising refrigeration solutions for each application and then assisting them in the selection of the most appropriate product(s) to successfully complete the required objective.

Given the dramatic commercial and legislative changes now governing the refrigeration sector, Fridge Spares' role as advisors has become crucial, as has its openness and willingness to embrace new concepts and technologies.

As for the product portfolio, right from the outset Fridge Spares has stocked only brand-leading refrigeration products and related accessories, making it a policy to

supply only the highest-quality items available.

Among the leading brands stocked are L'Unite Hermetique; Copeland Corporation; Friga-Bohn; Danfoss; nmc; IMI Yorkshire; Sporlan; Galco; and Eliwell. There is also a range of ancillaries, accessories and tools available.

Contact: Derek Byrne.

Tel: 01 - 830 3466

ABB Strengthens Climaveneta Partnership

ABB has been successfully representing Climaveneta for over two years and has already delivered and installed units in commercial, semi-conductor and food industry applications.

Climaveneta manufactures water and air-cooled chillers with capacities ranging from 7.5Kw to 1500Kw; a comprehensive range of reverse-cycle heat pumps; multi-use energy raiser units; DX condensers; and split systems.

Climaveneta can offer a full range of air and water cooled chillers using R22, R134A, and the newly developed KLEA 66 (R407C).

Climaveneta endeavours at all times to find new and better solutions for the HVAC market. This process has recently been strengthened by its purchase of the DeLonghi Group which increases still further its research and development capabilities.

ABB's partnership with Climaveneta means that the company can offer the complete packaged solution, incorporating the well-known ABB air handling units, terminal units, propriety ventilation, and building management systems. A specially written Climaveneta PC package allows for the remote monitoring and adjustment of chillers.

Flexible solutions are also offered for different plant sizes and locations by virtue of a range of condenserless chillers and air cooled chillers with centrifugal fans for locating plant indoors.

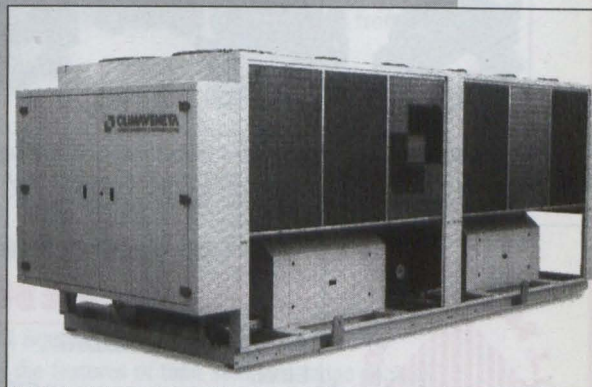
For users of large electrical power loads, Climaveneta has developed a range of air cooled liquid chillers which are powered by natural gas and a range of free cooling chillers which can give co-efficients of performance up to 26:1 during favourable ambient conditions.

All Climaveneta products are factory tested and certified.

For larger refrigerant loads for process systems, ABB offers ABB Stal equipment which includes the ABB Stal range of screw compressors which have cooling capacities up to 3000Kw.

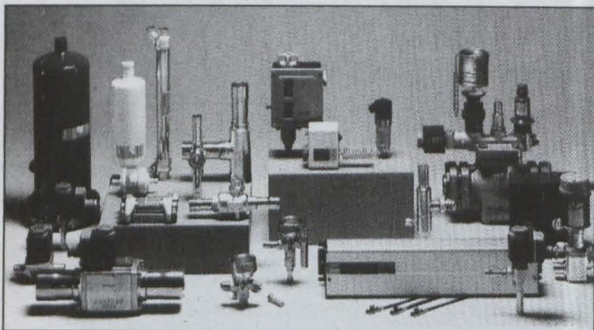
For further information or quotations contact: Mark Grimes/Tony Denvir at ABB, Belgard Road, Tallaght, Dublin 24. Tel: 01 - 405 7300; Fax: 405 7324.

The Climaveneta FE - WRAT series of air cooled liquid chillers has capacities ranging from 393Kw to 1269Kw. Details from ABB.



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product review

refrigeration

J & E Hall Supplies McQuay Chiller to China

J & E Hall Ltd, Ireland has recently supplied an air-cooled McQuay water chiller for a process cooling application in China. The chiller was supplied in record time to meet an assembly schedule whereby it would form part of an overall skid-mounted process package.

The overall package – which includes heat exchangers and pumps – is a mobile unit which will be moved to different locations in China as required. The chiller had to meet stringent requirements with regard to operation in wide variations of ambient temperature, power supply variations and general rough usage. It was supplied with basic spares and, thanks to the worldwide McQuay service operation, any site attendances will be made from local offices in China.

The J & E Hall team in Ireland is headed by General Manager, Noel May with the assistance of Engineering Manager, Colin Huggett and Service Manager, Frank Healy. "We see China and indeed South East Asia as having excellent potential", says Noel May. "We've already made significant inroads in a number of areas in China and anticipate winning further orders and projects over the coming months".

The McQuay chiller range includes piston, screw, centrifugal and absorption types to cover all requirements in the process cooling and HVAC areas.

Chillers are normally supplied fully charged with refrigerant and oil, and are factory-run at full and part-load conditions to ensure that each control component is correctly adjusted and operates correctly.

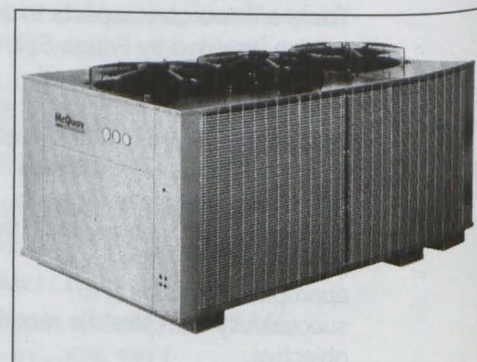
Technical assistance on chiller selection and application is always readily available from Colin Huggett.

Frank Healy's years of experience in the service field ensure that maintenance and service is accurately tailored to individual plant requirements and efficiently executed.

The comprehensive service facility includes fully-trained, time-served engineers able to work on all types of chillers, from installation checks through commissioning to after-sales maintenance and call-out attendance.

J & E Hall in Ireland handle McQuay chillers for process cooling applications and also the McQuay service and commissioning. McQuay HVAC chiller applications are handled by Thermo Systems.

Contact: Noel May,
J & E Hall Ltd, Ireland.
Tel: 01 - 295 0950;
Fax: 01 - 295 0955.



McQuay chiller from the air cooled range. Details from J & E Hall Ltd, Ireland.

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<https://arrow.tudublin.ie/bsn/vol35/iss6/1>
DOI: 10.21427/D7R11R

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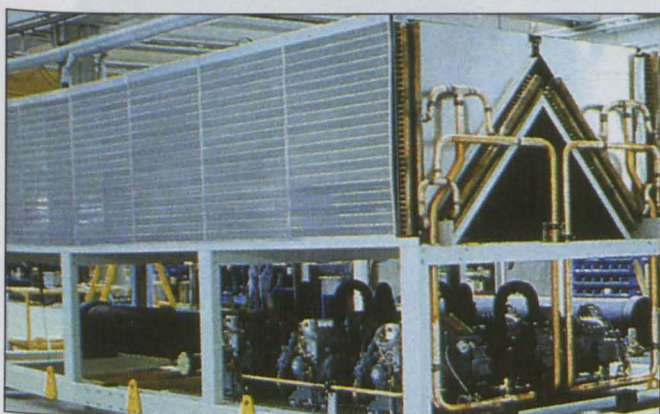
W R A T (Models 151 up to 4808)

Capacities – 35 up to 1150Kw

UNIT DESCRIPTION

This series of air cooled water chillers, equipped with propeller fans, has a wide range of applications. They are units whose characteristics make them suitable for outdoor installation. The compressors are housed in special acoustically-insulated protection case. Insulation of the exterior located evaporator incorporates a surface treatment that provides protection against the elements.

This range of chillers is also available with screw compressors.



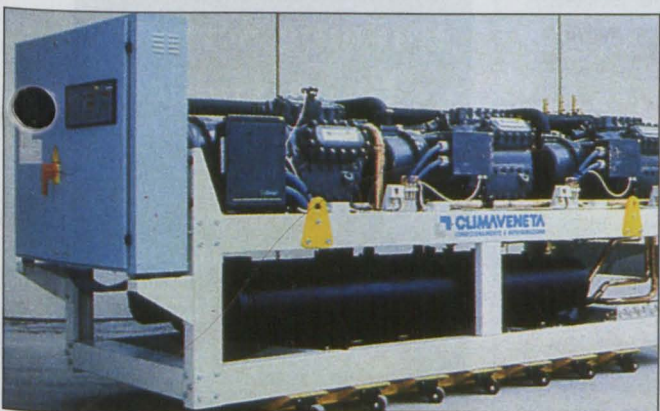
W R A T - F C (Models 351 up to 2404)

Capacities 84 up to 563Kw

UNIT DESCRIPTION

These units are intended for situation where the need for chilling capability continues throughout the cold months, or when the ambient air temperature is lower than the return temperature in the system. For this reason, when the system is "free-cooling", the fluid is cooled by means of the external air, thus reducing the load on the compressors or even completely substituting them. The necessary cooling capacity is therefore obtained with almost zero energy expenditure (FREE-COOLING 100% = cop 25). These are units whose characteristics make them suitable for outdoor installation.

This range of chillers is also available with screw compressors.



W R H (Models 151 up to 4170)

Capacities 41 up to 1694 Kw

UNIT DESCRIPTION

This series of liquid chillers, which are cooled either by tower or well water, can be used in large-capacity systems that require the use of large-size compressors. Especially noteworthy is the possibility, in models with heat recovery, of having hot water during operation as chiller. They are particularly compact units, with all their components easily accessible, and are designed for installation in covered sites sheltered from the elements.



F E - W R A T (Models 1802 up to 6404)

Capacities 393 up to 1269Kw

UNIT DESCRIPTION

This series of air cooled liquid chillers has been introduced by Climaveneta to give all the features of their standard range such as compressor enclosures and double control panel doors as standard. But are manufactured with painted galvanised sheet metal to give the customer the option of having a more competitive price.

York to Focus on Refrigeration Sales

In line with York ACR's expansion plans for 1996, the company has decided to focus on one of its traditionally most successful areas, ie, refrigeration sales.

Refrigeration sales worldwide account for approximately 22% of York's revenue and the Irish market – with its concentration on food processing, pharmaceutical, electronic industry, petro-chemical, textiles, refrigerated warehouses and food distribution centres and sports venues – is an ideal market base for its product range.

The comprehensive York ACR refrigeration portfolio includes screw compressors; condensers; evaporators; heat transfer equipment; pressure vessels; spiral and tunnel freezers; package refrigeration systems; hygienic air handling and distribution systems; and automated panel controls.

An indication of the scope and diversity of the range – and its wide-ranging application capabilities – is contained in the following product examples:-

reciprocating compressors, S&T heat exchangers, IP23 or IP55 motors and a control panel mounted on a heavy-duty base frame.

Suitable for fresh water with outlet temperatures from +8°C to +4°C and brine or glycol from +4°C to -20°C, the units are available for use with HP liquid receiver in place of S&T condenser if required, for remote air cooled application.

The evaporator and suction piping are insulated with 50mm foamed in-situ polyurethane, under polished aluminium cladding where the chillers feature low refrigerant charge 4-33kg (R717). Outdoor and explosion-proof options are available;

Model 'SC' R22 & R717 DX (130 kW – 1630 kW – water, glycol or brine) – The "SC" range of industrial low-temperature liquid chillers are suitable for applications as the "GP" but cover larger duties and incorporate the Frick screw compressor range. Chillers feature low refrigerant charge 25-81kg Max (R717). Outdoor and explosion-proof options available.

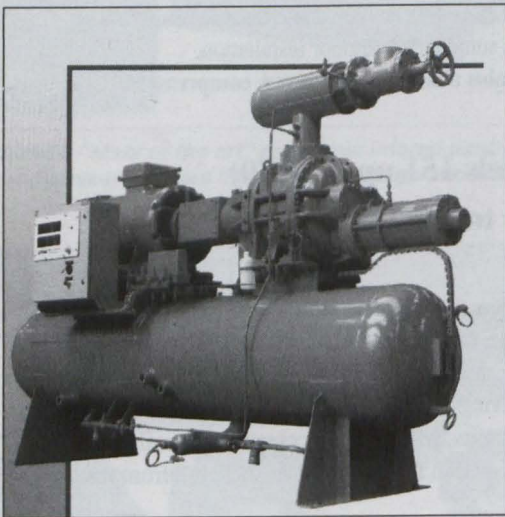
Electronic soft start/Star-Delta/Autotransformer starters can be fitted or supplied;

Frick Model RWBII Plus (506 – 5635 m³/hr swept volume) – All models include infinitely-variable volume ratio (to reduce energy waste from under or over compression); infinitely-variable capacity control (100% to 10% of full load); and microprocessor control.

Suitable for both high stage and booster operation, differential pressure lube system and pre lube oil pump are standard with full lube or cycling lube oil pump available as options. Units supplied with or without motor.

DX or flash economisers are available as standard options with liquid injection, water cooled or thermosyphon oil cooling. Explosion proof options also available.

Contact: Finbar Keenaghan, Refrigerant Sales, York ACR.
Tel: 01 - 456 9424;
Fax: 01 - 456 9425.



Frick Model RWBII Plus
506 – 5635 m³/hr swept volume

Model 'GP' R22 & R717 DX (40 kW – 600 kW – water, glycol or brine) – The "GP" range of industrial low-temperature liquid chillers is pre-fabricated, assembled and tested at the works. Featured are

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Baltimore Aircoil/RSL - Providing Operational Efficiency and Energy Saving

Baltimore Aircoil International NV has extended surface coils on all of its evaporative condenser and industrial fluid cooler product lines from RSL Ireland. Use of this optional coil construction provides the equipment operator with the opportunity for operational flexibility and energy savings, with water conservation and elimination of visible plume.

Operating "wet" during peak cooling season, Baltimore Aircoil evaporative condensers and industrial fluid coolers provide maximum energy efficiency through evaporative cooling to remove heat sensibly and latently. Typically, this peak season cooling requirement only lasts during 2/3 summer months.

At all other times of the year ambient temperatures, and often the cooling load, are reduced. As this occurs, the use of an extended surface coil allows the heat to be rejected in the sensible or "dry" mode. The extended surface coil is usually selected so that the evaporative cooling equipment can operate in the "dry" mode for 50% or more of the operating hours.

The patented Baltimore Aircoil heat transfer coil with the extended surface construction, utilises a specially-wound, footless, steel fin on some or all of the tubes making up the coil. The size and spacing of the fins are optimised by Baltimore Aircoil to achieve a trouble-free performance at an optimal cost/performance ratio. The complete coil assembly is hot-dip galvanised after fabrication, giving excellent corrosion protection and a powerful mechanical and thermal bond between the fin and tube.

The concept provides for water conservation by allowing "dry" operation during off-peak or winter

Carel Refrigeration Monitoring and Control System

EasyTel is a new versatile product from Carel designed to excel in the most demanding refrigeration applications requiring control, recording, monitoring and supervision, and telemaintenance within centralised plant.

Before EasyTel became available, the operators working in the refrigeration sector were obliged to consider the above application requirements separately. As a result, refrigeration installations had quite complex and awkward structures, needed long times to be set up, implied high costs and had no flexibility at all.

Carel believes that the era of single-purpose control instruments is now over.

Controlling a certain variable without being able to regulate it automatically is not enough. That is why they have worked on EasyTel, a software package aimed at operators who need to solve all problems concerning the control and regulation of a refrigeration unit by simply setting up a centralised network system.

EasyTel is fast and easy to use. The capabilities of standard Carel controllers can be expanded by equipping them with a dedicated serial card. After that, just choose the EasyTel package most suitable to the application requirements.

What makes EasyTel unique is its remarkable versatility and flexibility allowing you to meet any specific need, without effort and with great results.

EasyTel proves to be successful not only in the refrigeration sector but also in a wide range of air-conditioning applications.

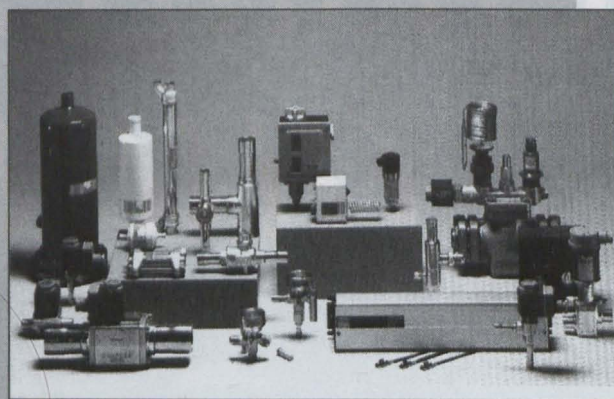
The hardware structure of the products dedicated to the air-conditioning sector, in fact, is similar to that of the instruments typically used in refrigeration systems. As a result, the user can enjoy the same advantages in both sectors.

Thus, controlling a network comprising several peripheral units – whether in refrigeration or air conditioning systems – is no longer a problem.

Contact: John Sampson, J J Sampson & Son Ltd.

Tel: 01 - 626 8111.

J J Sampson & Son Ltd are also responsible for the full range of Danfoss refrigeration and air conditioning controls.



conditions. During these periods, the recirculating pump can be shut off and the equipment basin drained, which saves water treatment costs. The need for expensive basin water freeze protection systems can be avoided as well.

The extended surface coils can also be used to eliminate the visible plume which is characteristic of evaporative cooling equipment

operating in cold weather periods. A psychometric analysis can be performed in the equipment selection stage to identify periods of high plume potential. If plume elimination is required, the most economic solution is the use of extended surface coils.

Contact: Gerry McDonagh, RSL.
Tel: 01 - 450 8011.

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SPECIAL REPORT

Building Energy Management Systems

The Irish Energy Centre and the ESB estimate that there are at least 6,000 businesses and institutions throughout the country with annual energy bills in excess of £10,000.

Experience has shown that the use of Building Energy Management Systems (BEMS) could result in annual energy cost savings of between 10 to 20%, with typical payback periods of about three years.

As a result, the Irish Energy

Centre has targeted BEMS as a priority technology for energy savings, and is promoting the use of BEMS through a series of regional workshops and through the publication of a Good Practice Guide. The Good Practice Guide, the first in a series planned by the Centre, was formally launched by the Minister of State at the Department of Transport, Energy and Communications earlier this month. Participants at the regional workshop held in

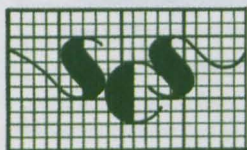
Galway on 25th April, were given a preview of the Good Practice Guide. The workshop included papers by Overy & Associates of Clonmel and MacArdle McSweeney Associates of Dublin and Galway explaining:-

- what a Building Energy Management Systems (BEMS) is and,
- how to procure a Building Energy Management Systems (BEMS).

Included were case studies for systems installed at Ericssons, the Swedish telecommunications company, in their Athlone facility, and at University

College, Galway (UCG). The one-day event concluded with an on site demonstration of the system at UCG conducted by Bill Noone of UCG.

Bill Noone has been Energy Manager at University College, Galway since 1973, and has seen the initial introduction and continuing enhancement of BEMS at the college. When Bill first started at UCG, the annual energy bill accounted for about 5% of the running costs of the college. Through the use of BEMS and other energy saving practices, this has been reduced to 2.8% of annual college running costs. This achievement is reflected in the fact that UCG



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has in the past won three National Energy Awards i.e. in 1981, 1982 and 1989.

UCG has 8,000 students and a varied portfolio of buildings totalling about 100,000 sq m, with an energy bill in 1995 of £850,000. In 1980 each sq m of space used 279 kWh of energy per year. This has been reduced to 206 kWh per sq m for 1995, a saving of 25%, or £150,000 per year. A total of £1,500,000 in savings have accrued over the last 15 years, and these have been used by the college in other areas.

The first Building Energy Management System installed at UCG was a Satchwell BAS 700, installed in 1984. Since then additional systems have been added, including a Trend Supervisor system and, most recently, a Cylon Wn 3000. Some additions were made to take account of expansion at the college which has doubled in size since 1980, while other enhancements were made to take full advantage of the much easier interface offered by modern systems through personal computers and a Windows graphical interface. Currently, the system controls over 1,200 items of plant, including boilers, pumps, air conditioning and ventilation plant, domestic hot water calorifiers, etc.

The BEMS includes software that allows flexible scheduling of plant, optimises the starting and stopping of plant in response to weather conditions while all the time taking the temperatures in each building into account. The software controls the plant, thereby ensuring optimum efficiency when it is operating. It also monitors and controls electrical maximum demand, thus ensuring that electricity costs are kept to a minimum.



Emmet Stagg, TD, Minister of State at the Department of Transport, Energy & Communications, speaking with David Taylor, Director of the Irish Energy Centre, at the launch of the Centre's guide on Building Energy Management Systems.

Additionally, the BEMS is used to monitor conditions that would indicate that certain maintenance actions are required and to provide alarms when things go wrong. It also functions as a key management tool and is used to keep historical records which are used to diagnose problems as well as to produce management reports.

Bill's staff are able to pull up a graphic on a PC for each system showing actual operating conditions at any instant. They can also make any adjustments necessary to temperatures, operating hours, etc without having to visit the plant rooms. Hitherto, problems only become apparent when the phone rang with a complaint. Now the BEMS usually alerts Bill's staff of a problem *before* the students or academic staff notice anything is wrong, enabling a much more proactive service to be provided. If the on-site staff are unable to diagnose and solve

a problem, the BEMS comes into its own again. Outside specialist maintenance staff are able to dial into the BEMS system via a modem, and conduct their own review of the system.

The new Good Practice Guide is a 46-page, A4 size, document which explains what a Building Energy Management System does, and the benefits offered.

It uses simple, technical language to explain the common features of BEMS, to outline its value in reducing energy consumption, and to discuss training for operators, system commissioning and system maintenance.

The Guide will be of benefit to facilities and energy managers, professionals involved in the procurement, design, specification and construction of buildings and third level students.

Coinciding with the publication

of the Guide is the announcement of grant-aid in excess of £125,000 to four hospitals and five hotels to assist them in installing building energy management systems. The installation of these systems will result in annual savings of £115,851 on their current energy bills and will result in a reduction of 1800 tonnes of carbon dioxide emissions into the atmosphere each year.

The grants are as follows – Merlin Park Hospital (Galway) £29,200; Castlebar General Hospital £11,800; Roscommon County Hospital £10,000; St Dymphna's Hospital (Carlow) £10,000; Green Isle Hostel (Dublin) £7,888; Kelly's Hotel (Rosslare) £9,587; Newpark Hotel (Kilkenny) £12,384; Jurys Hotel (Waterford) £5,541; and Jurys Hotel (Cork) £30,000.

Contact: The Irish Energy Centre.

Tel: 01 - 836 9080.

Project Profile

The Irish Energy Centre Headquarters

The new Irish Energy Centre is located in the heart of the Forbairt campus at Glasnevin and covers just over 400 sq m in area.

Homan O'Brien Associates were appointed by the Irish Energy Centre – through the Energy Research Group at the School of Architecture, in University College Dublin – to: (1) ensure that the services design completed the design aspects of the building structure; (2) that it demonstrated energy efficiency; (3) that it exemplified good practice in Irish building services.

Quite simply, the services in the new Irish Energy Centre had to allow the centre practice what it was about to preach.

The building itself was designed to allow minimal energy consumption. Therefore, it was important that the design of the services installation complemented this.

The design and location of the windows maximises the penetration of daylight into the building. There is no point in doing this if the lighting control system cannot compensate by turning the lights off.

Consequently, a Philips Trios lighting control system – with 3-function sensor configuration – was installed. It incorporates a movement detector for maximum energy savings; a light sensor for daylight linking and constant lux control; and manual infra red transmitters. Energy savings of 70% are possible.

Fluorescent tubes with high-frequency control gear were used to provide background illumination of 300 lux with low-energy individual task lighting provided at each work station.

The fabric of the building is insulated to a level of approximately 30% better than that regarded by the Building Regulations. Therefore, the heat requirement into the building should be reduced. A high-

efficiency Ideal Standard condensing gas boiler was installed to meet the heat load, the sizing of the boiler being critical to ensure maximum condensing efficiency.

A large continuous and unnecessary energy consumer is the heating circulating pump, especially where thermostatic radiator valves are incorporated. With this in mind a Grundfos UPE Services 2000 variable speed pump was installed. The pump will automatically adjust its performance to the system requirements by changing the differential pressure. This means a considerable reduction in power consumption. The control of the differential pressure also ensures optimum operation of the thermostatic valves, thus preventing disturbing noise.

The building is naturally ventilated by openable windows, some opening onto a central double-height atrium. High and low-level openable sections have been installed to promote general air movement. However, it is important to ensure good air movement when still external conditions exist. Vent Axia hi-line sweep fans were installed for this purpose to move air in the atrium when required.

The most important part of an energy-efficient services installation is to be able to monitor the effectiveness of such an installation. To this end electronic pulse meters have been installed on the incoming gas supply, lighting circuits and general power circuits. The pulse meters are connected back to a Trend outstation which, in turn, is connected to the Forbairt Central Trend Intelligent building services control and monitoring system.

This will allow the Irish Energy Centre produce actual energy consumption figures for their own office environment and access the effectiveness of individual energy-saving techniques.

Building Services Buyer Guide

Ireland's Only Definitive Mechanical & Electrical Product Directory

Irish Building Services News (BSNews) is now in the process of compiling the **Building Services Buyer Guide, 1996/1997**. It will retain the proven formula of the last edition, making it the most comprehensive building services guide for the industry, including as it does both mechanical and electrical data. As such, it will be the definitive "Who Represents Whom" of the entire building services sector, covering manufacturers, agents and distributors.

Building Services Buyer Guide is recognised as the established reference manual for the entire building services industry. It is widely used on a daily basis by Specifying Mechanical and Electrical Consultants; Architects; Refrigeration Engineers; Home Builders; Commercial Builders; Energy Managers; Maintenance Managers; Property & Facilities Managers; Building Services Engineers; Builders Merchants; Domestic Contractors and Plumbers; and Mechanical and Electrical Contractors.

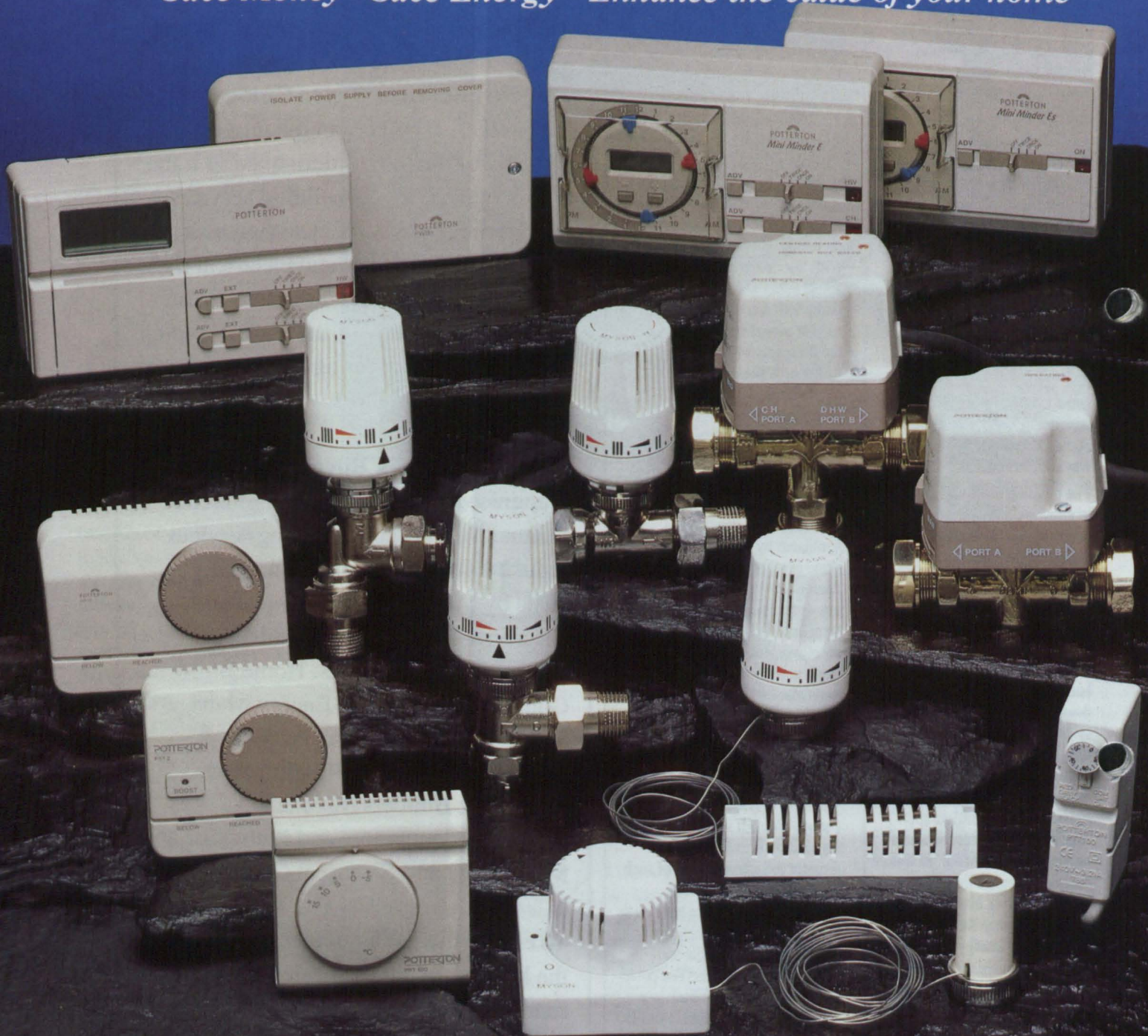
To ensure that your company name – and the brands and product categories you represent – are included in this publication, complete the entry form you will receive in the post in the coming days. Final date for completed entry forms is **Friday, 12 July 1996**.

Contact: Edel at Tel: 01 - 288 5001.

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CIBSE NEWS

CIBSE Student Competition

The CIBSE student competition was held in the Dublin Institute of

Technology, Bolton Street on 13 March last.

The competition was



Degree Class Winners



Diploma Class Winners

overseen by Oliver McNulty (DIT), Herbert Taylor, Vice-Chairman CIBSE (Republic of Ireland), and judging was by Jim Curley and Sean Ascough.

The results were as follows:-

Diploma Class

First Place – Paul Brophy: Smoke Ventilation;

Second Place – Ray Symes: The Development of Telecommunication Systems and their applications;

Third Place – Fergus Weldrick: Hydro-Power.

Degree Class

First Place – Conor Clarke: Energy Targets for Office Buildings;

Second Place – Bernard Denver: The BREEAM Method;

Third Place: John O'Connor: Energy Efficient Building Envelopes.

Fume and Odour Control

The final technical evening of the current session was held in March 1996 and the title of the paper presented was "Fume and Odour Control".

Whether it was to do with the Irish atmosphere or a desire to learn more about odour control we may never know, but the evening attracted one of the largest attendances this year.

Some people may have thought it would deal with fume cupboards and the like and may have been taken aback when they were confronted with a talk on industrial fumes and odours.

Dr Pazton, however, was not just an interesting speaker, but also spoke enthusiastically about his subject, from the various techniques employed, current legislation, chemical scrubbers, and the history and development of fume control.

One member wrote after the meeting to say it was the best technical lecture that he had heard in years.



Greg Traynor pictured with Dr Richard Paxton; Colman Dwane and Sean Costelloe at the "Fume & Odour Control" evening.

CIBSE Programme 1996/1997

Date	Description	Venue	Convenor	Speaker
23/10/96	Guide to use of Internet for CIBSE members	IEI	O Reddy	Mr A Ramsay
7/11/96	Successful Building Services Maintenance	RDS	S Ascough	
28/11/96	Environmental Analysis of Buildings	IEI	C Murphy	Ken Beattie
24/1/97	Annual Dinner	Burlington	B Homan	
11/2/97	Student Awards	Bolton Street	K Beattie	
20/2/97	Lighting Guide 3 – up-date for visual display terminals. Guidance – not legislation?	IEI	H Taylor	Mr P Ruffles
13/3/97	Student Project Awards	Bolton Street	K Beattie	
25/3/97	Evolution of Air Conditioned Buildings	IEI	O Reddy	D Arnold
28/3/97	Design Team Trophy	Castle GC	J Hogan	
24/4/97	AGM	IEI	J Curley	

SPECIAL REPORT

VMRA Celebrates Golden Jubilee

Earlier this month VMRA held a reception in the O'Reilly Hall in UCD to mark the occasion of the company's 50th anniversary.

As befitting such an auspicious event, representatives from virtually the entire building services industry turned up to congratulate the principals, founding members and staff, and to wish them well for the future. It was an informal, celebratory and enjoyable occasion, made all the more so because of the highly-appropriate venue. Judging by the weather, even the Gods showed their approval!

It would be impossible to detail the contribution VMRA has made to the building services sector in Ireland, or indeed to the construction industry as a whole.

Its record, reputation and current industry standing says it all.

What does follow, however, is a brief "thumbnail" sketch of VMRA over the last 50 years.

J Varming & Partners 1946 – 1955

In 1946 Michael Scott invited Jorgen Varming and Ove Arup to come to Ireland to work with him on Áras Mhic Dhiarmada and the Donnybrook Bus Station. As a result, Jorgen came to Ireland and the practice J Varming & Partners commenced work in 19 Merrion Square. Jorgen, the son of a well-known Danish

architect, had been practising in Copenhagen as a building services engineer since 1933. Sean Mulcahy joined the company in 1947 and became a Partner in 1950.

Major projects of the period included – Aras Mhic Dhiarmada; Donnybrook Bus Station; St Vincents Hospital; Bantry Hospital; Abbey Theatre; Inchicore Chassis Factory; Luttrellstown Castle.

J Varming & S Mulcahy 1955 – 1965

In 1952 the practice assumed



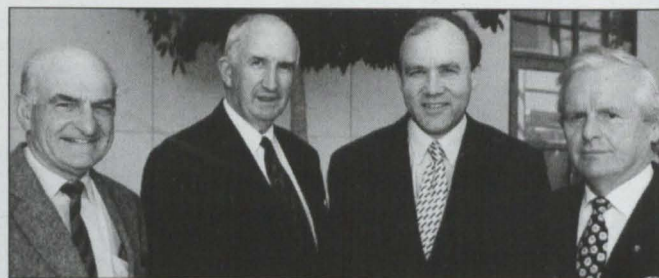
Architect Cathal O'Neill with Denise O'Leary, UCD and Sean Mulcahy

the name J Varming & S Mulcahy. In pursuit of new work, Sean Mulcahy decided to start a second practice in London in 1957 with Tom Smith and Poul Hansen, while still working in Dublin. The London office developed quickly and in 1962 Sean started a third practice in Edinburgh with Jack Torrance.

Major Irish projects of this period included: Irish Life, Mespil Road; UCD Science Buildings; Stillorgan Shopping



Tony Conlon, VMRA with Jim Keating, Department of Education; David Corrigan, VMRA; Donal McGowan and Sean Brennan, UCD; and Brendan Sheehan, VMRA



Denis Jackson with Tom Gallagher, Department of Health; John Purcell, VMRA; and Rex McGowan, Architect

Centre; UCC Science Building; Aer Lingus Head Office; Liberty Hall; TCD Library.

Varming Mulcahy Reilly Associates 1965 – 1975

In 1965 Brian Reilly, who had started working with the practice in 1952, became a Partner. By this time Jorgen Varming had withdrawn and the practice assumed the name Varming Mulcahy Reilly Associates. Activity in building was considerable and the company increased in size to more than 100 people.

In 1973 Varming Mulcahy Reilly Associates, with J B Barry & Partners, formed the company BeMRA specifically to carry out industrial work.

Major projects of the period included: RTE Radio Centre; Syntex; Cork University Hospital; Noritake; TCD Arts Building; Ferenka; Cork Regional Technical College; St. James's Hospital; AIB Headquarters.

VMRA 1975 – 1985

In 1975 Tony Conlon, John Purcell and Brendan Sheehan became Partners and the company changed its name, for the third time, to VMRA.

VMRA moved to its present address in Tramway House. By 1981 the company had grown to 180 but activity in building in Ireland began to fall off in the early 1980s. By 1985 the

company had decreased in size to 80 people.

Major projects of the period included: Beaumont Hospital; Medite of Europe; Dublin Castle; Leo Laboratories; UCD Engineering Building; Dublin Gas Pipeline; UCC Dairy Science Building.

VMRA 1985 – 1996

There was another revival in work activity and the company began to increase in size again. VMRA started a facilities management company, Tramtrax, in 1990. In 1992 VMRA took over the practice of the late Hugh Munro who had previously been a director of VMRA. Hugh Munro & Co Ltd specialise in petroleum and oil-related work. In 1991 VMRA was accredited the ISO Standard 9001 for Quality Assurance.

Brian Reilly and Sean Mulcahy retired from the practice in 1990 as Partners but continue to have a considerable input. Stephen McLaughlin became a Partner in 1993.

Major projects of the period include: Tallaght Hospital; Hewlett Packard; Dublin Civic Offices; Yamanouchi; Government Buildings; Organon; Omni Park Shopping Centre; Coca Cola; Conrad Hotel; Mallinckrodt Medical Imaging.



Klaus Ungar, OPW with Ray Chandler, Architect; Brian Reilly, VMRA; Jim Smyth, Architect; and Tom Egan, North Eastern Health Board

IDHE Annual General Meeting

The Annual General Meeting of the IDHE was held in the Engineers Club, Clyde Road on, Tuesday 18 June.

The Institute had a very successful year with a number of excellent technical evenings; a most enjoyable golf outing at Clontarf (see right) and the Annual Dinner Dance in the Tara Towers.

Tributes were paid to the outgoing Chairman and Secretary, who resigned because of pressure of business. Some of the existing committee have also resigned. Officers and members of the new committee were elected unanimously (see below).

The committee announced its intentions to appoint a consultant to advise the Institute on its role in what is a rapidly-changing environment for heating contractors.

For instance, David Harris, the Development Officer, outlined a scenario where the Government would insist on the Registration and monitoring of all heating installation companies, and indeed operatives. This will lead to a massive reorganisation of the industry with bodies like IDHE taking an active role in training; standard-setting; standard monitoring; quality; and safety.

In order for the IDHE to be able to assess its possible role in this changing environment, it was proposed and agreed that a consultant be appointed to examine the industry as it is currently structured and to advise the IDHE on how it might reorganise itself to cope with the likely problems.

A wide-ranging discussion

took place on the future role of the IDHE and the committee is to be congratulated on its efforts to identify and deal

with the likely changes which will impact in the industry in the coming months and years.

IDHE Annual Golf Outing

The IDHE Annual Golf Outing was held in Clontarf Golf Club last month.

The large turnout enjoyed an excellent day's golf and a beautiful meal later in the evening. The course was in perfect condition, making for very competitive scoring on the day.

Tom Kennedy of Bord Gais was a deserving overall winner while all participants on the day acknowledged the sponsorship of Barlo and the fact that Hevac provide the perpetual trophy.



IDHE Annual Outing at Clontarf – Tom Kennedy, overall winner, receiving the Perpetual Trophy which is sponsored by Hevac from Oliver Fitzpatrick of Barlo who sponsored the outing.



Sean Giffney, Mary Kinsella and Tony Macken played as a 3-ball and produced three winners.

IDHE 1996/97 Officers and Committee

Chairman – David Harris (Tel: 01 - 874 1151);

Deputy Chairman –

Jimmy Hamilton (Tel: 01 - 453 1635);

Treasurer – Sean Giffney (Tel: 01 - 836 1083);

Development Officer –

John Duignan (Tel: 01 - 626 4917);

Asst Dev Officer –

Brendan Pluck (Tel: 01 - 833 1172);

Education Officer – John Smartt (Tel: 01 - 838 7673);

Officers – Tom Kennedy (Tel: 01 - 679 2311); John Holton (Tel: 01 - 8311336); Bernard Egan (Tel: 044 - 48924); Joe Keogh (Tel: 01 - 821 2626).

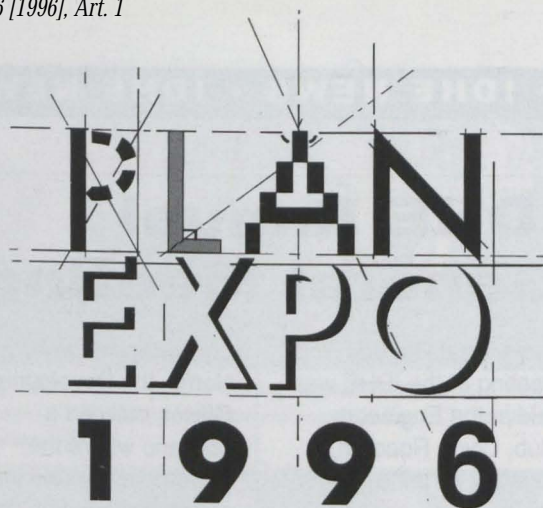
Until the appointment of a new Secretary all enquiries should be forwarded to Sean Giffney at Tel: 01 - 836 1083



Dave Harris, IDHE Development Officer, with Brendan Pluck, Tony Kenna and Donal Collins.

EXHIBITION NEWS

New Format Proves Selling Power for Exhibitors



Such was the success of the new-format Plan Expo introduced last year that just over 75% of the available space for this year's show is already allocated to intending exhibitors, a full six months prior to the event.

Moving to the totally-refurbished RDS Main Hall Complex and the inclusion of a Saturday opening last year resulted in just over 4,000 building-related professionals, trades people, builders and builders merchants/suppliers passing through the doors.

The growth experienced last year within the design, construction and building services industries has continued unabated into 1996 with the momentum actually gearing up in some sectors. This is particularly apparent in the hotel industry with something like 90 new hotels planned for the whole country over the next year or two, 40 of them for Dublin alone.

Apart from new developments, dozens of hotels have plans to increase accommodation capacity and refurbishment schedules. Couple that with the continuing growth in the housing/apartment sector and the extra commercial/industrial capacity required by the booming economy and the scale and importance of the construction and building services industries come sharply into focus.

Latest CIF figures put the total value of the Irish construction industry at something like £4.8 billion.

Plan Expo is the only dedicated exhibition facility capable of representing and accommodating this massive industry. Everything from the choice of venue — Main Hall Complex, RDS; 7/8/9 November 1996 — to the quality of the stands and the extensive

programme of complementary events confirms this status.

Apart from the exhibition itself, this year's Plan Expo will incorporate the most comprehensive conference, seminar and skills demonstration programme ever run in tandem with such a show. Among the events planned are the IDHE Conference; a CIBSE Seminar on successful building services maintenance; and a 1-day conference which is being organised by the Property & Facilities Managers Association. Brief details of each are as follows:-

IDHE Conference - Where to Now?

Mechanical contracting, especially at the domestic level, is currently undergoing something of a traumatic transformation. Apart from advances in technology and building management systems, there is the impending introduction of legislation which will regulate the industry. This is especially important in relation to those working with gas. It is against this background that the IDHE one-day conference will be set.

Venue: Merrion Room, adjacent to the exhibition hall.

Date: Friday, 8 November

Successful Building Services Maintenance - CIBSE Seminar

Of all the processes associated with the building services industry, maintenance is the one which lasts the longest.

However, rarely is it a cost-effective, enjoyable experience. More often it is a painful and expensive experience. Mostly, this is because it has been

relegated to less than its rightful importance through compromised design and a general lack of understanding and care.

By gathering together a good cross-section of the building services industries' leading maintenance experts, this seminar will present a clear and concise picture of the essential aspects of current and future building services maintenance practice.

Venue: Lansdowne Room, adjacent to the exhibition hall.

Date: Thursday, 7 November.

Futuristics - The Property & Facilities Managers Association

"Futuristics" is the theme of the Property & Facilities Managers Association's one-day conference. As the title suggests, the emphasis will be on:-

- ◆ the changing face of property management;
- ◆ the impact of new technologies on the performance of buildings;
- ◆ the ever-increasing need to maximise energy performance;
- ◆ the growing demands being made of buildings from owners and users alike.

Venue: Merrion Room, adjacent to the exhibition hall.

Date: Thursday, 7 November.

Where & When?

Venue: Main Hall Complex, RDS

Date: 7/8/9 November.

Who To Contact: Stephan Murtagh.
Tel: 01 - 295 8181.

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TO: Mr Pat Brogan **C.C:** P Byrne
COMPANY: Brogan & Associates **FROM:** Sales Department

Please phone Mark Eire if you do not receive all pages.

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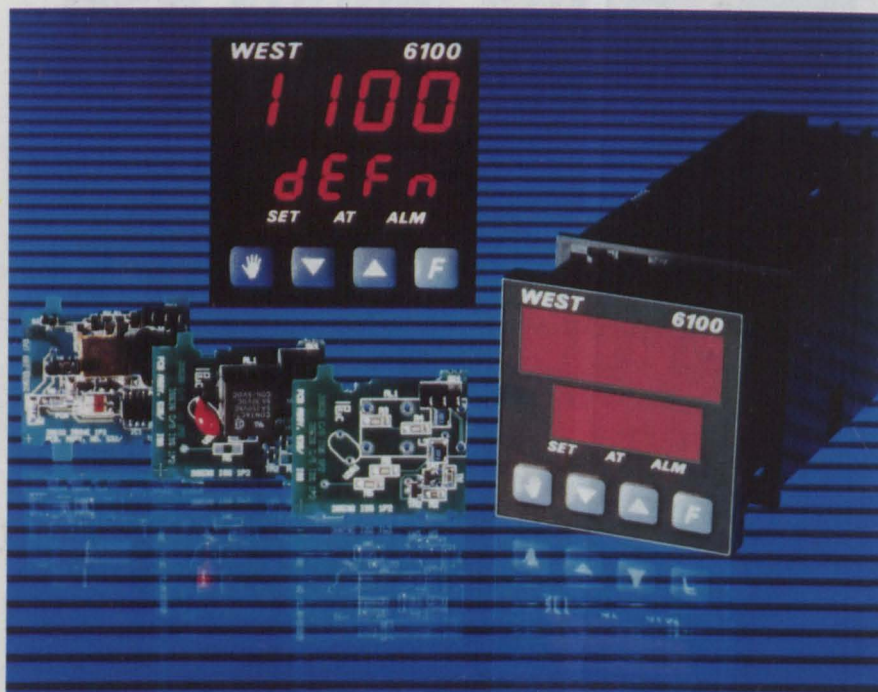




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